

## POSIDON - WB-57 #927 10/18/16 Science Report

**Aircraft:**

[WB-57 #927](#) ([See full schedule](#))

**Date:**

Tuesday, October 18, 2016

**Mission:**

POSIDON

**Mission Location:**

Guam

**Mission Summary:**

This flight provided extensive sampling of cirrus throughout the TTL, additional tracer measurements in the air mass perturbed by typhoon Haima, sampling of an enhanced SO<sup>2</sup> layer in the uppermost troposphere that was predicted by GEOS5 chemical transport model, and measurements of a water vapor gradient across the leading edge of TTL cirrus over Guam. Instruments mostly performed well.

**Submitted by:**

Susan Kimi McFadden on 11/11/16

**File:**

 [POSIDON\\_RF04\\_report.pdf](#)

**Related Flight Report:**

### WB-57 #927 10/18/16

**Flight Number:**

10

**Payload Configuration:**

POSIDON

**Nav Data Collected:**

No

**Total Flight Time:**

5.7 hours

**Submitted by:**

Jasmine Gascar on 10/21/16

**Flight Segments:**

<b>From:</b>	PGUM	<b>To:</b>	PGUM
<b>Start:</b>	10/18/16 10:04 Z	<b>Finish:</b>	10/18/16 15:46 Z
<b>Flight Time:</b>	5.7 hours		
<b>Log Number:</b>	<a href="#">17W003</a>	<b>PI:</b>	Eric Jensen
<b>Funding Source:</b>	Ken Jucks - NASA - SMD - ESD Upper Atmosphere Research Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Payloads: MMS, DLH, SID3, CPI, 2DS, SO2, H2O, POPS, WAS, PANTHER AND 03 LITE. SATCOM type was INMARSAT. High flight. Flew SE toward the S/SE boundaries of the outflow from Typhoon Haima in an altitude band of FL480 FL580. On the return trip, the aircraft flew past Guam outbound and returned. A balloon launch occurred at 1400 at the United hangar. Onboard OAT measurements were running on average -74C at altitude.		

**Flight Hour Summary:**

	16W007	17W003
<b>Flight Hours Approved in SOFRS</b>	58	42
<b>Flight Hours Previously Approved</b>		50.5
<b>Total Used</b>	7.5	90.3
<b>Total Remaining</b>		2.2

**17W003 Flight Reports**

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
<a href="#">10/01/16</a>	3	Ferry	4.4	4.4	88.1
<a href="#">10/02/16</a>	4	Ferry	5.7	10.1	82.4
<a href="#">10/03/16</a>	5	Ferry	5.9	16	76.5
<a href="#">10/09/16</a>	6	Ferry	4.2	20.2	72.3
<a href="#">10/12/16</a>	7	Science	5.7	25.9	66.6
<a href="#">10/14/16</a>	8	Science	5.3	31.2	61.3
<a href="#">10/15/16</a>	9	Science	4.8	36	56.5
<a href="#">10/18/16</a>	10	Science	5.7	41.7	50.8
<a href="#">10/19/16</a>	11	Science	5.7	47.4	45.1
<a href="#">10/21/16</a>	12	Science	5.6	53	39.5
<a href="#">10/24/16</a>	13	Check	1.3	54.3	38.2
<a href="#">10/25/16</a>	14	Science	4.5	58.8	33.7
<a href="#">10/26/16</a>	15	Science	5.5	64.3	28.2
<a href="#">10/28/16</a>	16	Science	5.4	69.7	22.8
<a href="#">10/31/16</a>	17	Ferry	5.2	74.9	17.6
<a href="#">11/01/16</a>	18	Ferry	5.9	80.8	11.7
<a href="#">11/02/16</a>	19	Ferry	5.6	86.4	6.1
<a href="#">11/03/16</a>	20	Ferry	3.9	90.3	2.2

**Source URL:** [https://airbornescience.nasa.gov/science\\_reports/POSIDON\\_-\\_WB-57\\_927\\_10\\_18\\_16\\_Science\\_Report](https://airbornescience.nasa.gov/science_reports/POSIDON_-_WB-57_927_10_18_16_Science_Report)

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*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

**16W007 Flight Reports**

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
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<a href="#">09/13/16</a>	1	Science	2.1	2.1	55.9
<a href="#">09/15/16</a>	2	Science	5.4	7.5	50.5